Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 19, 2004

Mr. Bill Mehnert
Ecology and Environment, Inc
333 SW 5th Avenue, Suite 608
Portland, OR 97204

Subject: 10-AY-0002
ARI # GX62

Dear Mr. Menhert;

The analytical testing you requested on this project was grain size analysis by ASTM D422. A data plot and summary tables are be provided.

If you have any questions on the data or its presentation, please call me at 206-695-6246.

Best Regards,
Analytical Resources, Inc.

Harold Benny

Harold Benny
Geotechnical Laboratory Manager

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Ecology and Environment	Project No.: GX62
Client Project: 10-AY-0002	

Case Narrative

1. The sample was submitted for grain size analysis according to ASTM methodology.
2. The sample was a well graded sand. It was run for both the sieve and hydrometer analysis.
3. The data is provided in summary tables and a plot.
4. There were no noted anomalies in the samples or methods on this project.

Approved by: Harold Berry Date: 8/19/04
Title: Geotechnical Division Manager

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

12.0°C

START-2, Portland, OR
EPA Contract #:

CHAIN OF CUSTODY RECORD
Site #: 10-CY
Contact Name: Bill Mehnert
Contact Phone: 503-248-5600

No: 10-AY-0002
Cooler #:
Lab: ARI, Inc.
Lab Phone: 206-695-6200

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	04070150	Child Play	Sieve and Hydrometer Analysis	Soil	7/19/2004	1	16oz	4°C	N
	04070150	Child Play	Percent Solids (% Solids)	Soil	7/19/2004	Same	"	4°C	N

Special Instructions: Please return cooler to: Ecology & Environment, Inc., 333 SW 5th Ave, #600 Portland, OR 97204

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
For Analysis	[illegible]	8/2/04	[illegible]	8/5/04	1020						

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Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
Child Play	100.0	82.9	74.9	73.0	65.7	58.4	51.8	46.7	41.6	37.9	33.5	25.1	22.5	19.5	16.5	14.3	8.7	5.2

Testing performed according to ASTM D421/D422

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Percent Retained in Each Size Fraction

Sample No.	% Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Total Sand	% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Very Fine Silt	% Clay
Size (microns)	> 4750	4750-2000	2000-425	425-75	4750-75	75-32	32-22	22-13	13-9	9-3.2	<3.2
Child Play	34.3	7.3	11.8	13.1	32.2	8.4	2.6	3.0	3.0	7.8	8.7

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Grain Size Distribution by Hydrometer